

A b s t r a c t

Process for the enzymatic preparative production of GDP-6-deoxyhexoses from GDP-D-mannose, mannose-1-phosphate or mannose-6-phosphate in the presence of suitable enzymes such as a GDP-D-mannose-4,6-dehydratase and optionally a GDP-4-keto-6-deoxy-D-mannose-3,5-epimerase-4-reductase or a GDP-4-keto-6-deoxy-D-mannose-4-reductase and a process for coupling the resulting GDP-activated hexoses to oligosaccharides or polysaccharides using glycosyltransferases e.g. fucosyltransferases.